

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L11	30	(US-20040191093-\$ or US-20060013704-\$ or US-20010015385-\$ or US-20030140703-\$ or US-20060245955-\$ or US-20040013547-\$ or US-20010043871-\$ or US-20040258518-\$ or US-20060018775-\$ or US-20040258544-\$ or US-20060198743-\$).did. or (US-6140725-\$ or US-3759290-\$ or US-4155560-\$ or US-6519935-\$ or US-6719215-\$ or US-6970645-\$ or US-6877524-\$ or US-6558139-\$ or US-6132823-\$ or US-4612947-\$ or US-6049939-\$ or US-6537315-\$ or US-7008196-\$ or US-6524078-\$).did. or (US-3261403-\$ or US-2103666-\$ or US-2289706-\$ or US-3410219-\$ or US-3367274-\$).did.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 12:23
L12	10	l11 and freeze	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 12:23
L14	2	PCT/DE02/03163.pct.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 12:34
L15	2	PCT/DE02/03163.pct.	US-PGPUB; USPAT; USOCR; EPO; DERWENT ; IBM_TDB	SAME	ON	2007/06/24 12:38
L19	32	((DIETER) near2 (HOFFMEIER)).INV.	EPO; DERWENT ; IBM_TDB	SAME	ON	2007/06/24 13:35
L20	32	((DIETER) near2 (HOFFMEIER)).INV.	FPRS; EPO; JPO; DERWENT ; IBM_TDB	SAME	ON	2007/06/24 12:41
L25	46	((DIETER) near2 (HOFFMEIER)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	SAME	ON	2007/06/24 12:43
L26	3	("5128845").URPN.	USPAT	SAME	ON	2007/06/24 13:28
L27	0	us-2220094286-\$..did.	EPO; DERWENT ; IBM_TDB	SAME	ON	2007/06/24 13:57
L28	0	09/733257.app.	EPO; DERWENT ; IBM_TDB	SAME	ON	2007/06/24 13:57
L29	2	09/733257.app.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 13:57
L31	8	("3313241").URPN.	USPAT	SAME	ON	2007/06/24 14:24

EAST Search History

L33	112	impeller pump drain valve (membrane or diaphragm)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:37
L34	151	impeller pump drain (membrane or diaphragm)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:36
L35	32	("2240782" "2276077" "2427656" "2741991" "2777395" "2905093" "3089423" "3128713" "3484113" "3926442" "3999882" "4128362" "4130287" "4613141" "5195867" "5372730" "5591001" "5605436" "5713719" "5772396" "5827041" "6099243" "6250876").PN.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:31
L36	5	I34 and freeze	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:36
L37	10	("2375085").URPN.	USPAT	SAME	ON	2007/06/24 14:34
L38	199	impeller drain (membrane or diaphragm)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:36
L39	6	I38 and freeze	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:37
L40	761	impeller pump (membrane or diaphragm) (discharge or outlet)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:39
L41	25	I40 and freeze	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:38
L42	14286	pump (membrane or diaphragm) (discharge or outlet) valve	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:39
L43	42	I42 and impeller and freeze	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:43
L44	1	"4741715".pn.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:43
L45	26	("0271060" "2350598" "2655121" "2884888" "2959144" "2966525" "2966875" "3011468" "3067714" "3550612" "3875888" "4357912").PN. OR ("4741715"). URPN.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:46
L46	2	(purge diaphragm valve (freeze or frost or cold)) and (pump impeller)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:48
L47	18	(purge diaphragm valve (freeze or frost or cold)) and (pump)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:46
L48	2	(purge diaphragm valve (freeze or frost or cold)) and (impeller)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:47

EAST Search History

L49	30	(purge diaphragm valve (freeze or frost or cold))	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:47
L50	10	(purge diaphragm valve) and (pump impeller)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:50
L51	15490	diaphragm with (outlet or discharge) with valve	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:51
L52	6439	I51 and pump	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:51
L53	137	I52 and freeze	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:51
L54	10	I53 and impeller	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:51
L55	46	(US-20050254974-\$ or US-20050254963-\$ or US-20050252842-\$ or US-20050011825-\$ or US-20050000892-\$ or US-20040262236-\$).did. or (US-5128845-\$ or US-7217938-\$ or US-7093720-\$ or US-6872055-\$ or US-6688542-\$ or US-5942109-\$ or US-5711657-\$ or US-5084175-\$).did. or (WO-2005123215-\$ or WO-2005100255-\$ or WO-2004020834-\$ or WO-2004020825-\$ or WO-2004020741-\$ or WO-2004020343-\$ or WO-2004019744-\$ or DE-10239944-\$ or DE-10240543-\$ or WO-3031814-\$ or WO-3027026-\$ or WO-2005099542-\$ or DE-102004019619-\$ or WO-2005021963-\$ or DE-10318270-\$ or DE-10331602-\$ or WO-2004020835-\$ or WO-3024560-\$ or DE-10043589-\$ or DE-10043668-\$ or WO-118916-\$ or WO-117916-\$ or WO-117660-\$ or WO-66893-\$ or DE-19737885-\$ or DE-19737884-\$).did. or (EP-846663-\$ or WO-9809023-\$ or DE-19509454-\$ or WO-9602763-\$ or DE-3232949-\$ or DE-3115662-\$).did.	US-PGPUB; USPAT; EPO	SAME	ON	2007/06/24 14:54
L56	1	I55 and diaphragm	US-PGPUB; USPAT; EPO	SAME	ON	2007/06/24 14:54
L57	32	("2240782" "2276077" "2427656" "2741991" "2777395" "2905093" "3089423" "3128713" "3484113" "3926442" "3999882" "4128362" "4130287" "4613141" "5195867" "5372730" "5591001" "5605436" "5713719" "5772396" "5827041" "6099243" "6250876").PN.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:56
L58	0	I57 and diaphragm	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:57

EAST Search History

L59	1	((Holdorf) near2 (Thomas) near2 (M))	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:58
L60	3	((Holdorf) near2 (Thomas))	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 14:58
L61	26	US-6250876-\$.DID. OR US-6099243-\$.DID. OR US-5772396-\$.DID. OR US-5713719-\$.DID. OR US-5605436-\$.DID. OR US-5372730-\$.DID. OR US-5195867-\$.DID. OR US-4613141-\$.DID. OR US-4130287-\$.DID. OR US-4128362-\$.DID. OR US-3999882-\$.DID. OR US-3926442-\$.DID. OR US-3484113-\$.DID.	US-PGPUB; USPAT; USOCR; DERWENT	SAME	ON	2007/06/24 15:05
L62	5	diaphragm with valve with freeze with expand	US-PGPUB; USPAT; USOCR; DERWENT	SAME	ON	2007/06/24 15:06
L63	4	diaphragm with valve with freeze with expand	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 15:06
L64	0	("2302418").URPN.	USPAT	SAME	ON	2007/06/24 15:08
L68	0	(impeller with pump) (discharge with valve with freeze)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 15:11
L69	82	(impeller with pump) (discharge with valve with drain)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 15:11
S1	1	10/526038.app.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 10:31
S2	14	((DIETER) near2 (HOFFMEIER)).INV.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/24 12:38
S3	5	US-3046607-\$.DID. OR US-20020076337-\$.DID. OR US-3313241-\$.DID.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 10:59
S4	585	417/423.3.ccls.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:38
S5	914	417/423.14.ccls.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 10:59
S6	796	417/423.1.ccls.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 10:59
S7	394	417/572.ccls.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 10:59
S8	1	S4 and (freeze and ceramic)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:01

EAST Search History

S9	3	S4 and (freeze)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:02
S10	1	(submer\$6 pump ((anti or non) near3 freez\$4)) and ceramic	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:03
S11	48	(submer\$6 pump ((anti or non) near3 freez\$4))	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:15
S12	34	(impeller pump ((anti or non) near3 freez\$4))	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:05
S13	6	("3759290").URPN.	USPAT	SAME	ON	2007/06/23 11:07
S14	4	("2289706").URPN.	USPAT	SAME	ON	2007/06/23 11:10
S15	1	("3261403").URPN.	USPAT	SAME	ON	2007/06/23 11:14
S16	335	(pump with ((anti or non) near2 freez\$4))	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:44
S17	24	S16 and ceramic	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:18
S18	321	(pump with ((prevent) near2 freez\$4))	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:20
S19	13	S18 and ceramic	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:18
S20	4	US-6615849-\$.DID. OR US-6470605-\$.DID. OR US-1342218-\$.DID.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:22
S21	4	US-6110410-\$.DID. OR US-20030140703-\$.DID. OR US-6519935-\$.DID. OR US-6082102-\$.DID.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:27
S22	8	("3313241").URPN.	USPAT	SAME	ON	2007/06/23 11:29
S23	24	("0382820" "1248573" "1346791" "1910919" "2021145" "3222690" "3274619" "3313241" "3599251").PN. OR ("3962733"). URPN.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:30
S24	1174	(pump with (((anti or non) or protect\$5 or prevent\$5) with freez\$4))	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:35
S25	823	(pump with ((protect\$5 or prevent\$5) with freez\$4))	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:35
S26	32	S25 and ceramic	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:37
S27	1	(elastomeric with bushing with shaft with pump) and freez\$4	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:38

EAST Search History

S28	4	(elastomeric with bushing with shaft with pump)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:38
S29	13	S4 and freez\$4	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:38
S30	7	(pump with ((anti or non) near2 frost))	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 11:44
S31	0	("2103666").URPN.	USPAT	SAME	ON	2007/06/23 11:46
S32	212	52/171.2.ccls.	USPAT	SAME	ON	2007/06/23 11:46
S33	6	S32 and pump	USPAT	SAME	ON	2007/06/23 11:49
S34	0	(pond winter pump) and (ceramic with shaft)	USPAT	SAME	ON	2007/06/23 11:47
S35	0	((pond or pool) (winter or freez\$4 or frost\$4) pump) and (ceramic with shaft)	USPAT	SAME	ON	2007/06/23 11:47
S36	144	((pond or pool) (winter or freez\$4 or frost\$4) pump)	USPAT	SAME	ON	2007/06/23 11:48
S37	11	S36 and ceramic	USPAT	SAME	ON	2007/06/23 11:47
S38	1645	impeller and (freeze or frost)	USPAT	SAME	ON	2007/06/23 11:49
S39	195	S38 and ceramic	USPAT	SAME	ON	2007/06/23 11:55
S40	108	(ceramic with bearing) shaft pump	USPAT	SAME	ON	2007/06/23 11:58
S41	3	(pump chamber ice (prevent\$5 or protect\$5) impeller)	USPAT	SAME	ON	2007/06/23 11:59
S42	139	(pump chamber ice (prevent\$5 or protect\$5))	USPAT	SAME	ON	2007/06/23 12:09
S43	10	("5542471" "5889769" "5896373" "5940371" "6128488" "6132823" "6230013" "6278880" "6301479" "6811720").PN.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 12:00
S44	10	("4590993" "5542471").PN. OR ("6132823").URPN.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 12:01
S45	1	S44 and pump	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 12:01
S46	4	("2454091" "4599973" "6778763").PN. OR ("6970645").URPN.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 12:03
S47	19	("1356298" "1971659" "2622615" "2748798" "3099999" "4281422" "4368550" "4655248" "4705629" "4752979" "5259076" "5577274" "5671902" "6495034").PN.	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 12:05
S48	495	ceramic bearing shaft pump	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 12:19
S49	230	S48 and impeller	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 12:28
S50	2	S49 and (freez or frost)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 12:28

EAST Search History

S51	2	S49 and submer	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 12:29
S52	40	(S4 or S5 or S6 or S7) and (ceramic with bearing)	US-PGPUB; USPAT; USOCR	SAME	ON	2007/06/23 12:30